CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.14/BTR/CSR.8/614e/CUBE/2014-15 08.10.2014

TEST REPORT ON CONCRETE CUBES

* Client	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.T. Ravikumar,** No-180, 3rd Main, H.V.R. Layout, Magadi Road, Bangalore – 560 079.
* Name of the work	: Improvements to Drains at Cross Roads of Bhuvaneshwari Nagara in Ward No.14, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 28.08.2014
* Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as o	: 28^{th} day
Sample Received on	: 08.10.2014

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.09.2014	08.10.2014	8.125	475.5	21.13
2	10.09.2014	08.10.2014	8.296	492.3	21.88
3	10.09.2014	08.10.2014	8.345	512.3	22.77

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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Chief Executive Officer

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T-2377

Job No.: CTCE/BBMP/W.No.14/BTR/CSR.8/614e/CUBE/2014-15 13.10.2014

TEST REPORT ON CONCRETE CUBES

* Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

* Agency : **Mr. B.T. Ravikumar,**
No-180, 3rd Main, H.V.R. Layout, Magadi Road, Bangalore – 560 079.

* Name of the work : Improvements to Drains at Cross Roads of Bhuvaneshwari Nagara in Ward No.14, BBMP, Bangalore.

* Reference : BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 28.08.2014

* Sample ID : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{20}

Compressive Strength as o : 28^{th} day

Sample Received on : 13.10.2014

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.09.2014	13.10.2014	8.110	478.6	21.27
2	15.09.2014	13.10.2014	8.290	510.2	22.68
3	15.09.2014	13.10.2014	8.310	526.3	23.39

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T-2377

Job No.: CTCE/BBMP/W.No.14/BTR/CSR.8/614e/CUBE/2014-15 16.10.2014

TEST REPORT ON CONCRETE CUBES

* Client	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.T. Ravikumar,** No-180, 3rd Main, H.V.R. Layout, Magadi Road, Bangalore – 560 079.
* Name of the work	: Improvements to Drains at Cross Roads of Bhuvaneshwari Nagara in Ward No.14, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 28.08.2014
* Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as o	: 28^{th} day
Sample Received on	: 16.10.2014

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.09.2014	16.10.2014	8.180	489.5	21.76
2	18.09.2014	16.10.2014	8.266	505.6	22.47
3	18.09.2014	16.10.2014	8.392	521.3	23.17

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.14/BTR /STEEL/2014-15 05.09.2014

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. B.T. Ravikumar,** No-180, 3rd Main, H.V.R. Layout, Magadi Road, Bangalore – 560 079.
Name of the work	:	Improvements to Drains at Cross Roads of Bhuvaneshwari Nagara in Ward No.14, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 28.08.2014
Date of Test	:	05.09.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	556	13.40	O.K	O.K

Civil Tech Consultants & Engineers Bangalore

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